

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS REGISTRATION DIVISION (7505P)

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DATE OUT:	January 4, 2016
	STORAGE STABILITY (830.6317) & CORROSION CHARACTERISTICS (830.6320) REVIEW ACCELERATED STUDY []; ONE YEAR STUDY [X]; OVER 1 YEAR STUDY [] MP [] EP [X] EUP [] DP BARCODE No.: 430627 REG. No.: 59639-202 DECISION No.: 511917 MRID No(s): 497580-01 PRODUCT NAME: ZEAL SC MITICIDE COMPANY: VALENT USA CORPORATION Linda Mascall / Bruce Kitchens Product Chemistry Team
FROM:	Linda Mascall / Bruce Kitchens & Walter Ward Product Chemistry Team Chemistry, Inerts and Toxicology Assessment Branch (CITAB)/RD (7505P)
то:	Melody Banks / Venus Eagle, RM 01 Invertebrate and Vertebrate Branch 1 / RD (7505P)
I. CONCLUS	IONS:
[X] ACCE	E STABILITY (830.6317): EPTABLE CCEPTABLE* RADEABLE*
40CFR158.3	310 DATA REQUIREMENT: [X] SATISFIED [] NOT SATISFIED
[X] ACCE	ION CHARACTERISTICS (830.6320): PTABLE CEPTABLE* ADEABLE*
40CFR158.3	10 DATA REQUIREMENT: [X] SATISFIED [] NOT SATISFIED
* If unaccept	able or upgradeable describe the deficiency and provide recommendations

Comments & Recommendations:

This study demonstrates that Zeal Miticide SC is stable for one year at ambient temperature in representative commercial containers (HDPE bottles). The HDPE bottles containing Zeal Miticide SC retained their integrity for at least one year.

II. STUDY SUMMARY

A. STUDY CONDUCTED UNDER US GLP/OECD GUIDELINES

[X] Yes

B. PRODUCT INFORMATION

Active ingredient(s): Etoxazole

Label claim(s) Nominal concentration(s) (%): 31.7

Initial concentration(s) of the Al(s) (%) used in the study: 32.3 Lower certified limits (%) based on Al % on the label: 30.749 Lower certified limits (%) based on Al % in the study: 31.331

C. EXPERIMENTAL PARAMETERS

Temperature: [] Freezer; Room []; Warehouse [X]; 54°C []; Other []

Humidity: Indicate % (if provided)

Duration of study: [X] 1 year; [] over 1 year

Type of container: [] Glass; [] Metal; [X] HDPE; [] Fluorinated HDPE; [] Other

Analysis at intervals: [X] 0 (initial);

[X] 3 months; [X] 6 months [X] 9 months; [X] 12 months

[] Over 12 months

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D. ANALYTICAL METHOD

Method	DETECTOR			
Gas chromatography (GC)	 □ FID (Flame Ionization Detector) □ ECD (Electron Capture Detector) □ N/P (Nitrogen/Phosphorous Detector) □ Other 			
Capillary Gas chromatography (CGC)	□ FID (Flame Ionization Detector) □ ECD (Electron Capture Detector) □ N/P (Nitrogen/Phosphorous Detector) □ Other			
High Pressure Liquid chromatography (HPLC)	√ UV/VIS nm – 300 (nm)□ RI (Refractive Index)□ Other			
GC-MS / LC-MS	Specify			
Other	Specify			

E. RESULTS

Percentage of Etoxazole in Zeal Miticide SC. VC 1927, Stored at Ambient Temperature for Intervals Up to One Year

	0*	3 Months	6 Months	9 Months	12 Months
Glass Control Sample	32.3	32.2	32.0	31.7	31.5
HDPE Test Sample (1, 3, 5, or 7)	32.3	32.4	32.2	31.8	31.5
HDPE Test Sample (2, 4, 6, or 8)	32.3	32.3	32.1	31.6	31.4

^{*}Time 0 assay was conducted on the bulk sample before filling test and control containers.

No statistical calculations, other that calculation of means, were performed in this study.